

Title (en)

A Portable electronic system with improved wireless communication

Title (de)

Tragbares elektronisches System mit verbesserter drahtloser Kommunikation

Title (fr)

Système électronique portable avec communication améliorée sans fil

Publication

EP 2838210 B1 20200722 (EN)

Application

EP 13180509 A 20130815

Priority

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Abstract (en)

[origin: EP2838210A1] The application relates to a portable electronic system comprising a first electronic device and an auxiliary device, the first electronic device and the auxiliary device each comprising circuitry allowing the establishment of a uni- or bi-directional wireless link between the devices. An object of the present application is to improve wireless communication between two portable devices of a portable electronic (e.g. hearing assistance) system. The problem is solved in that the first electronic device comprises a first antenna defining a first spatial direction, and a first wireless unit operationally coupled to the first antenna, and wherein the auxiliary device comprises a second antenna defining a second spatial direction, the second antenna comprising a multitude of antenna elements, each antenna element defining a specific spatial direction, said second spatial direction being defined relative to said one or more specific spatial directions, a second wireless unit operationally coupled to the second antenna, a direction detector configured to provide a direction-signal indicating an estimate of a current value of said second spatial direction relative to a reference direction, and a control unit configured to selectively control the connection of said multitude of antenna elements of the second antenna to said second wireless unit based on said direction-signal from the direction detector. This has the advantage of allowing an optimized mutual orientation of the antennas of the electronic device and the auxiliary device, respectively. The invention may e.g. be used in applications involving wireless communication between two portable devices, e.g. in a hearing assistance system comprising a hearing assistance device and an auxiliary device, e.g. a remote control, an audio selection device and/or a communication device.

IPC 8 full level

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CPC (source: EP US)

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Cited by

US2023050564A1; EP3116239A1; CN110971742A; EP3166339A1; EP4156716A1; US10735871B2; US9980061B2; EP3285501A1; WO2021144031A1; US9980058B2; US10264367B2

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DOCDB simple family (publication)

EP 2838210 A1 20150218; **EP 2838210 B1 20200722**; CN 104378134 A 20150225; CN 104378134 B 20181106; US 10224975 B2 20190305; US 2015048976 A1 20150219

DOCDB simple family (application)

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